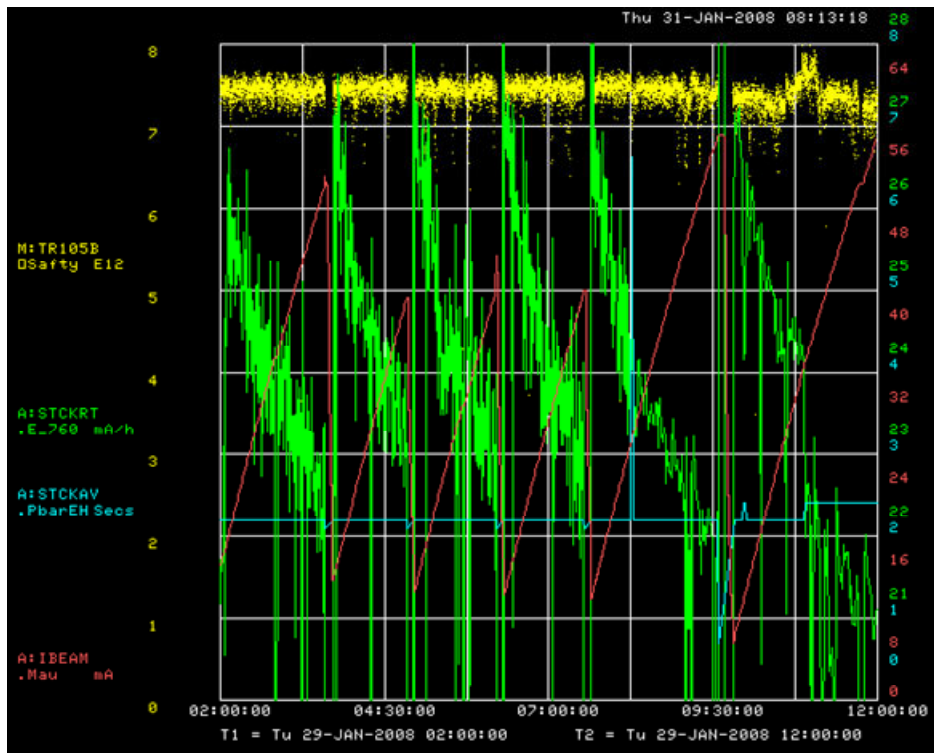


2008-01-31 Pbar Department Meeting

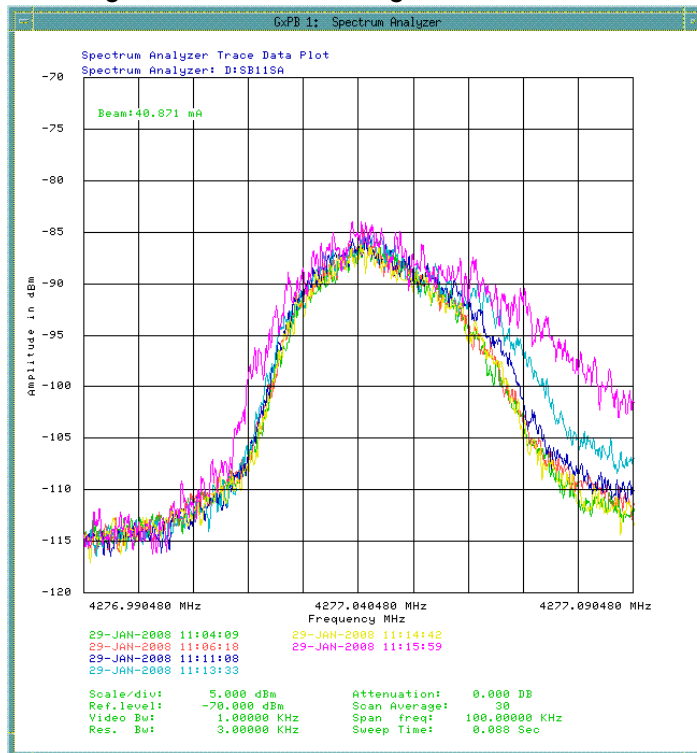
Thursday, January 31, 2008
9:59 AM

- Tuesday morning.
 - Initial stack rates were 27 to 27.5.
 - Extraced down to about 5mA instead of 10-12mA, held off
 - Recorded a record 24.19mA over one hour



- Keith's Slide:
 - Problems
 - A:BS103; A:QT
 - Band 3&4 fuse
 - AP3 BPMs
 - Maintenance
 - Debuncher Cooling
 - Analyses of measurements
 - Notch filter stability
 - Gain ramps
 - Debuncher Tunes
 - Ion Flusher
 - Rapid Transfers
 - Long Shutdown Jobs
 - Leave Calendar
- MI Access day work
 - PBKick is a headless PC that only Controls can login to.
 - Added remote reset capability.
 - Camac 183
 - Reset opens relay to power the PC.
 - Takes a few minutes it comes up.

- Still have to turn on the PS.
- Takes patient. Numerous reset and on iterations.
- Power cycle relay for two scopes at AP10.
The Flux Capacitor Scope and the Debuncher TBT Scope in AP10 are now powered through a relay controlled by D:SCP10R.
Clicking on the Reset property will cycle off the power to the two scopes for 10 seconds. The status bit shows the state of the power relay.
- DRF1-1
 - Driver HV supply was maxed
 - Replaced upper tubes
 - Tuned up.
 - Ultimately still drawing more current than DRF1-8.
 - Full solution may be replacing tubes in tunnel.
- D:ESEP
 - O/I protection was added and tested
- Phase balance relays
 - 2 or 3 were done.
- Debuncher Cooling
 - Put in changes on Tuesday
 - The magenta is after the changes were made. This is worse, so put the changes back.



Pasted from <http://www-bd.fnal.gov/cqi-mach/machlog.pl?nb=pbar08&action=view&page=-456&button=yes&invert=yes>

- Will ask Ed to look at the settings of PID controller.
- Optical notch filter worse
- Optical switches are here...
- Notch filters standard fiber..
- Make a new oven with better fiber and incorporate switches.
- When have to go into tunnel, may be a shorter access
- May be ready in a few weeks.
- At the very least, the notch filter will be more stable because of the fiber.
- In the meantime will see if we can make the existing ovens more stable.

- Still ask for 2 hour study period - go after band 4. Need Vander's aggregate to store beam.
- Gain Ramping...
 - Delay 1-2msec band 3 or 4.
 - Gate for all the systems.
 - The pin switches have an additional delay time.
- Debuncher Tunes
 - Trying to understand why yield up when went away from 3/4 vertical
 - Vertical is more sensitive to where the tune is.
 - Sextupole scans. -
 - Have a flat area +- few units of chromaticity
 - As move beam across 3/4 (tune space bigger)
 - Looks funny
 - Sextupoles kind of work,
 - Insensitive to +- 50A or so.
- Flusher
 - Smaller stacks, having stabilizing RF off the core doesn't work as well
 - Trying to come up with some automated guidelines...
 - Re-distributes beam in the core. Good for mixing for cooling.
 - Moves beam to tails, squares core.. Landau damping...
- Rapid transfers
- Long Shutdown jobs?
 - Debuncher tank...
 - Have a spare band one h or vertical kicker tank in debuncher....can use it for cooling? There may be room in the Debuncher 30 straight section.
 - Component shuffle. -
- a